University of New Haven

TAGLIATELA COLLEGE OF ENGINEERING

POWER ON

PITCH DECK- TEAM 04

March 04, 2025

University of New Haven

TAGLIATELA
COLLEGE OF ENGINEERING

MASTER OF SCIENCE IN DATA SCIENCE

-Mid Term Project (DSCI-6007-003)

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Empowering students with transparent and predictable healthcare costs.

Team working on this

Introduce your audience to the key members of your team

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Team Lead, Data Engineer

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Data Scientist

Vidyasagar

Data Analyst

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Problem Statement:

Breaking Barriers to Accessible and Transparent Student Healthcare

The Challenge: Students face a lack of transparency and accessibility in navigating university-provided health insurance.

Key Pain Points:

- Confusion about coverage details and provider options.
- Unexpected healthcare costs causing financial stress.
- Delays in seeking care due to unclear out-of-pocket expenses.

Impact:

- 50% of students avoid seeking healthcare due to cost concerns.
- 70% delay care because they are unaware of their out-of-pocket expenses. (Sources: Health Affairs, Journal of Student Health)

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The Problem

Students, particularly international students, rely on university-provided health insurance but face significant barriers in understanding and utilizing their coverage effectively.

Lack of Transparency:

- Insurance details are often buried in complex documentation.
- Students struggle to find clear information about covered services, copays, and provider networks.

01

Accessibility Challenges:

- There is No centralized platform to access all relevant insurance information.
- Students must navigate multiple resources to understand their coverage.

02

Real-Life Impact:

- Confusion and Stress: Students are left unsure about what their insurance covers.
- Financial Strain: Unexpected medical bills due to a lack of cost clarity.
- Delays in Care: Many delay seeking healthcare, leading to worsened conditions.

03

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Why it matters?

Over 1.1 million international students in the U.S. rely on university health insurance, and many face these challenges.

Addressing this issue improves student well-being, academic performance, and healthcare outcomes.

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The Solution

A digital platform designed to address the challenges faced by students in navigating university-provided health insurance. It eliminates confusion, enhances transparency, and ensures accessibility to healthcare information, empowering students to make informed decisions about their health.

Centralized Platform

- Combines all health insurance details in one place, reducing the need for students to consult multiple resources.

01

Transparent Information

- Provides clear, upfront details about coverage, including copays, deductibles, and limits.
- Offers easy access to provider directories and network affiliations.

02

Cost Clarity

- Features a cost estimation tool that calculates out-of-pocket expenses for treatments, helping students avoid unexpected bills.

03

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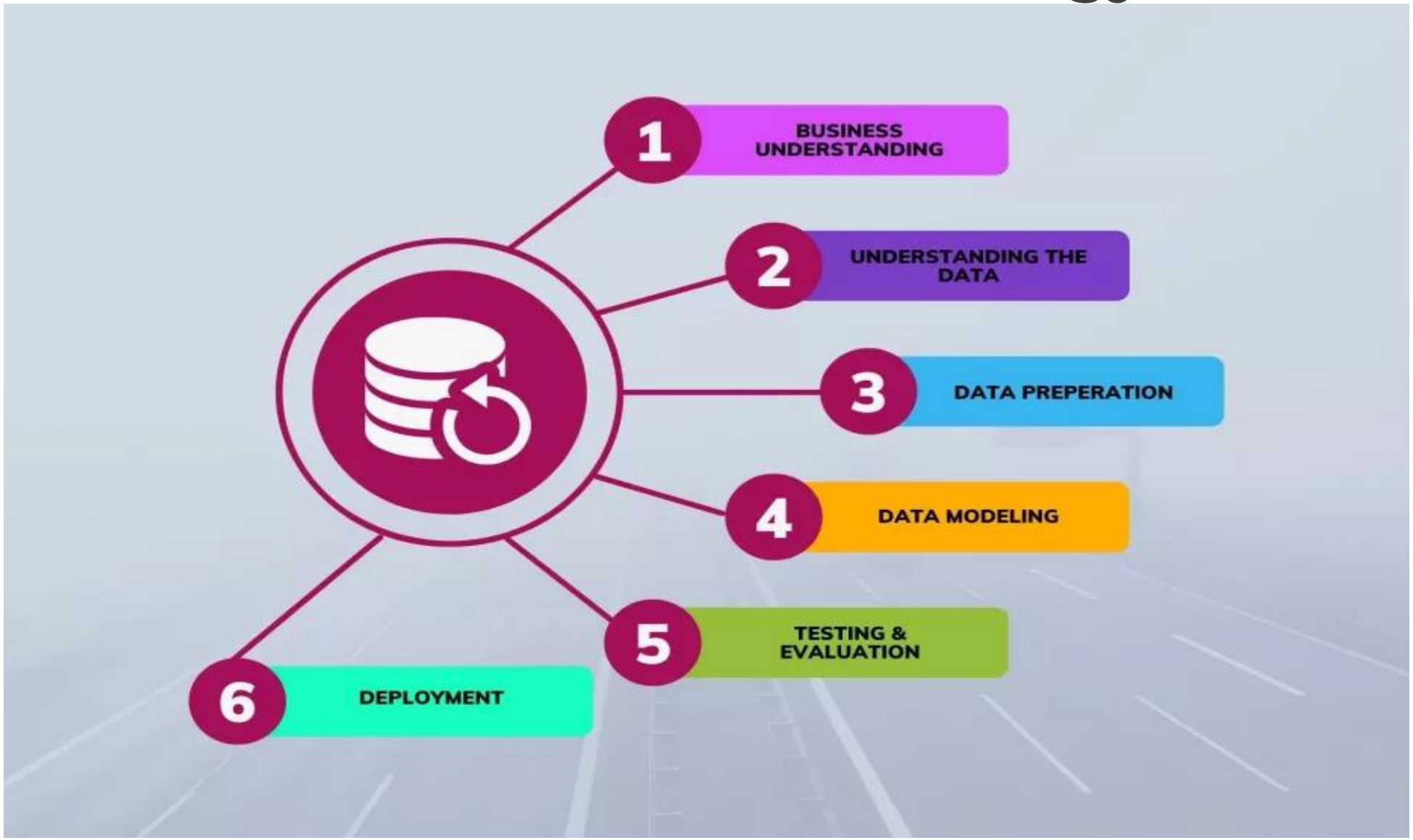
CRISP-DM Methodology



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Execution Plans

- Data Extraction
- Data Exploration
- Data Transformation
- Data Analysis
- Data Loading
- Data Visualization

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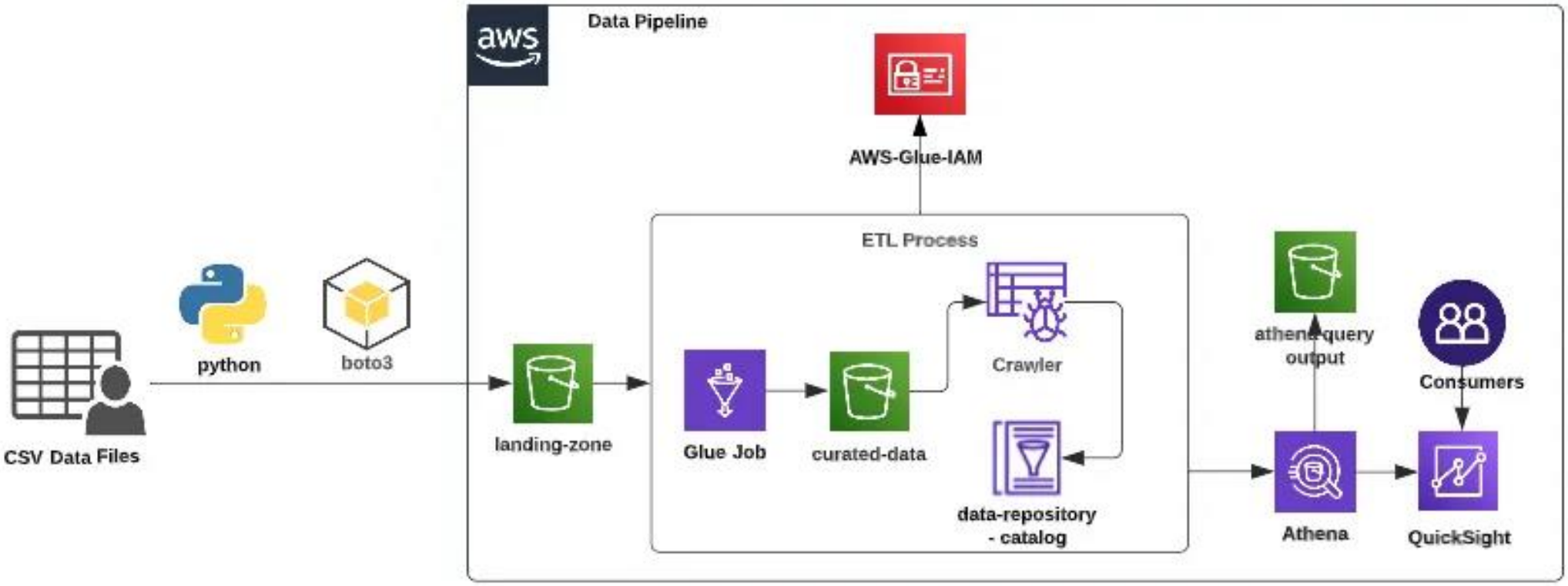
Workflow Chart



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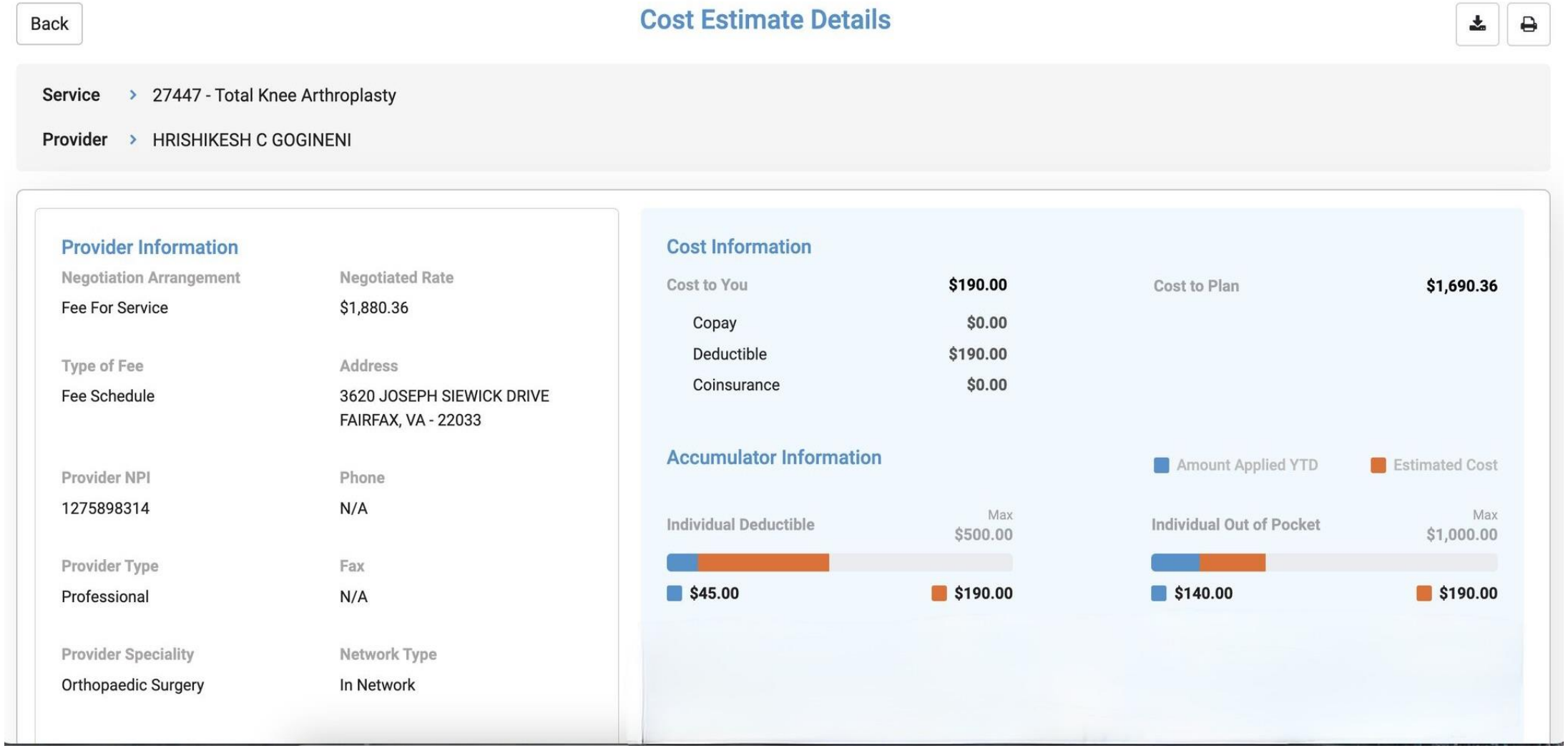
A glimpse to our platform:



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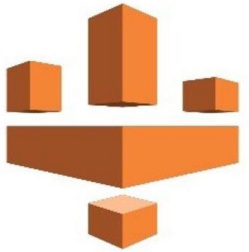
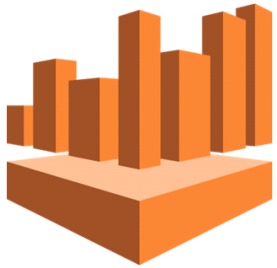
Used Tools & Technologies:

- Python
- AWS S3
- AWS Athena
- AWS Glue
- AWS Crawler
- AWS QuickSight



AWS Glue Crawlers



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Any Questions?